Helo Lanyard™

Operator Retention System

patents pending

AMAROK TECHNICAL GEAR™

FEATURES

- ***Purpose built and engineered***
- ***One-handed adjustment at the body***
- ***Designed for use with light to heavy-gloved hands***
- ***Standard length allows 18 - 20 inches of adjustment***
- ***Custom lengths available***
- ***Rated System strength of 15kN / 3,400 lbf***
- ***Calibrated force-limiting***
- ***8mm high tech camo rope using Technora sheath***

Our Helo-Lanyard™ Operator Retention System is purpose-built as a tactical position and retention lanyard for military and SWAT operators to secure themselves to helicopter platforms where seatbelts are not an option. The system design accounts for the safety of the operator by limiting forces to the body while reducing forces to the helo platform's anchor points during emergency scenarios.

Our system is secured directly to the Operator via a sit harness or the attachment point of any rated rigger's belt soft loop or hard ring. The Lanyard can then be connected to the helo platform floor rings, removable floor anchor rings or rated soft-rigging using your preference of double or triple-action snaphook.

Operator safety was foremost in the inspiration of this system while ease of use and ultimate confidence in it are the result of the design and engineering that has gone into it.

Attachment / Release Mechanism

The emergency release mechanism is what secures the Lanyard to the Operator. It is easily opened and closed for attachment, and can be emergency-released with gloved hands by simultaneously pushing two opposing buttons and sliding them forward in unison. This can easily be done with one hand with a 150kg/330lb load under tension. Versatility in design allows Operators to connect to the soft-loop or metal D-ring of a riggers belt along with the belay-loop of a standard harness, and our design allows room for up to a 12mm spine metal connector.

The release mechanism is designed to inspire confidence against inadvertent opening/release, and is operable when exposed to dry or wet beach sand.

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Adjustment

The Helo-Lanyard™ adjusts at the body, taking away the need for the Operator to turn away from their position. Taking in is done one-handed while extending can be done using one hand and a hip movement, again allowing the Operator to keep eyes on the mission.

Hi-Lights

- ***Single-Hand. Operator can attach the Lanyard to the personal connection point, the anchor, adjust the system, disconnect from the anchor and/or the Lanyard single-handed.***
- ***Multiple Connection Options***
- ***Extensive Testing. No compromising wear on any point of the Adjustment Device after several hundred hand-induced, full extension and retraction adjustments.***
- ***Performance. Slow-pull testing shows the device first slipping at 4.5kN. It then slips back to 4kN /900lbsf and holds there for thirty seconds.***
- ***Berry Amendment Compliant***

Available standard with a 2-stage Kong Tango or optional 3-stage ISC snaphook. The connection to the rope is sewn with critical stitching protected from wear.

Lanyard

OpLux 8mm rope was specifically chosen as preferable to webbing. It is easily distinguishable from all of the webbing and straps an Operator carries, and if a deliberate rescue is required, rope is easier to cut than flat webbing when loaded against a flat floor or edge.

This rope is strong, light, cut-resistant and hydrophobic. Its exterior sheath is identifiable at close range in low illumination or under NVGs.

We also chose to add a triple overhand knot at the adjustment end to further strengthen the system should impact forces slip the tail-end of the lanyard into the adjustment mechanism.

Specifications, Standard System

- ***Weight: 370 grams / 13oz.***
- ***Length Extended: 76 - 81cm / 30 - 32 inches***
- ***Length at Shortest: 30 - 33cm / 11.75 - 13 inches***
- ***Adjustability Range: 46 - 51cm / 18 - 20 inches***
- ***MBS of Complete System: 15kN / 3,400lbsf***

Choosing Your Length

It is important to Customize the length of the system to your airframe (or other craft) and users. After securing the device to yourself and the anchor with no slack in the system between connection points, there should always be 14.5cm/5.5in. of adjustment remaining to allow the system to reduce forces in a fall through slippage.

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